



03-PLA-028

KP 14.79/16.53

Kings Beach Commercial Core Improvement Project
EA 03198-0C930K_____

RU: _____

Program Identification: _____

Phase: ☐ PID ☒ PA/ED ☐ PS&ERegional Water Quality Control Board(s): Lahontan RegionIs the project required to consider incorporating Treatment BMPs? Yes ☒ No ☐If yes, can Treatment BMPs be incorporated into the project? Yes ☒ No ☐If No, a Technical Data Report must be submitted to the RWQCB
at least 30 days prior to Advertisement. List submittal date: _____Total Disturbed Soil Area: 10 AcresEstimated: Construction Start Date: 04/01/09 Construction Completion Date: 10/01/11

Notification of Construction (NOC) Date to be submitted: _____

Notification of ADL reuse (if Yes, provide date) Yes ☐ Date _____ No ☒Separate Dewatering Permit (if Yes, permit number) Yes ☐ Permit # _____ No ☒***This Report has been prepared under the direction of the following Licensed Person. The Licensed Person attests to the technical information contained herein and the data upon which recommendations, conclusions, and decisions are based. Professional Engineer or Landscape Architect stamp required at PS&E.***_____
Brian R. Stephenson, Registered Project Engineer_____
Date***I have reviewed the storm water quality design issues and find this report to be complete, current, and accurate:***_____
Rich Williams, Project Manager_____
Date_____
Pat Kelley, Designated Maintenance Representative_____
Date_____
Ken Murray, Designated Landscape Architect Representative_____
Date_____
John Holder, District/Regional SW Coordinator or Designee_____
Date

STAMP

[Required for PS&E only]



STORM WATER DATA INFORMATION

1. Project Description

The project is located in Placer County on State Route 28 in Kings Beach from K.P. 14.19 to K.P. 16.53. The purpose of this project is to improve pedestrian and bicycle mobility, improve water quality and improve the aesthetics of the commercial core through Kings Beach. Improvements include:

- Installing curb, gutter and sidewalk along the length of the project on both sides of SR-28.
- Installing storm water collect and treatment measures along SR-28.
- Installing and modifying traffic signals to improve pedestrian and bicycle mobility across SR-28.

The project site is located within the Griff Creek watershed. The project will not affect the hydraulic characteristics Griff Creek. A total disturbance area of 15 acres was calculated from plan view. The population of Kings Beach is 4037 residents; therefore there are no MS4 urban areas within the project limits.

2. Define Site Data and Storm Water Quality Design Issues (refer to Checklists SW-1, SW-2, and SW-3)

- The project site is located within the Sierra Nevada Mountain range. Site topography varies slightly, and is predominantly near the north shore of Lake Tahoe. This project requires minimal cuts and fills, all of which remain within existing right of way.
- The project drains into the Griff Creek Watershed and with effective BMP's is not expected to adversely impact the watershed.
- The project's compliance with Caltrans NPDES permit and implementation of construction BMPs and design pollution prevention BMPs will prevent adverse impacts to water quality in the area.
- The project site is not located within 100-year floodplain. Based on the nature of the project, it is not anticipated that the project would create a downstream flood hazard.
- The following permits, approvals, and coordination efforts will be required prior to construction of the proposed improvements.
 - Prior to construction, Placer County must obtain an Encroachment Permit from Caltrans for construction within State highway right-of-way.
 - Prior to construction, local construction approvals will be necessary including the issuance of construction permits, grading permits, and other engineering related approvals.
- There are seasonal construction restrictions. The rainy seasons has been defined by the RWQCB as October 15th through May 15th.
- Soils in the project area are existing fill and native soil generally of dense to medium dense, sandy lean clay and sandy silt with gravel overlying near surface granite ranging from weathered to fresh. BMP's will be implemented as described in the SWPPP in order to minimize erosion during construction of the project, and no adverse impacts are anticipated.
- This portion of the SR-28 alignment was built in 1960's and therefore assumes ADL. This project does not require the excavation of soils not covered by an impervious material.
- Potential seismic hazards may arise from three sources: surface fault rupture, ground shaking, and liquefaction. Based on available geological and seismic data, the possibility of the site to experience strong ground shaking may be considered moderate to low.

3. Regional Water Quality Control Board Agreements

There are no negotiated agreements with the Lahontan RWQCB pertaining to this project.



4. Describe Proposed Design Pollution Prevention BMPs to be used on the Project.

Summarize responses to Checklist DPP-1, Parts 1-5 in a short narrative. Use the sub-headings shown below for the type of information that should be described in the narrative. Note, not all of the bulleted information listed is required or available at each phase of a project. Information to be included will depend on the nature of the project and the site conditions.

Develop an estimate of quantities and costs for the erosion control/revegetation portion of the Design Pollution Prevention BMPs as part of the for the Storm Water BMP Cost Summary; include right of way costs if additional right of way is needed for erosion control. Complete for each phase of the project.

Downstream Effects Related to Potentially Increased Flow, Checklist DPP-1, Parts 1 and 2

- The project will not have a effect on downstream flow.
- Hydraulic changes will occurred due to the project.

Slope/Surface Protection Systems, Checklist DPP-1, Parts 1 and 3

- The steepest slopes will be 1:6. Disturbed slopes will be treated with hydraulic mulch, soil binders, and fiber rolls. These items will be outlined in the SWPPP that will be prepared in the PS&E phase of this project.
- Existing slopes are stable.
- Total BMP area (before and after construction)
- Vegetated surfaces will feature native plants.
- There are no hard surfaces used as slope protection within the project limits.

Concentrated Flow Conveyance Systems, Checklist DPP-1, Parts 1 and 4

- The Drainage Report will be prepared in the PS&E phase of this project.

Preservation of Existing Vegetation, Checklist DPP-1, Parts 1 and 5

- Areas of disturbance and existing cover to remain have been identified in the Landscaping Concept Plans, Exhibit R of the Draft Project Report. The project area is 15 acres, of which 15 will be disturbed during construction.
- Preservation areas identified on project exhibits will be fenced during construction.

5. Describe Proposed Permanent Treatment BMPs to be used on the Project**Treatment BMP Strategy, Checklist T-1**

- List the Targeted Design Constituent(s), if any.
- List what percentage of the WQV/WQF will be treated. If less than 100%, describe justification.
- Describe the Treatment BMP strategy for the watershed(s) within the project limits.

Biofiltration Swales/Strips, Checklist T-1, Parts 1 and 2

- There are no biofiltration swales within the project limits.

Dry Weather Diversion, Checklist T-1, Parts 1 and 3

- Dry weather diversions are not incorporated into the project at this time.

Infiltration Devices – Checklist T-1, Parts 1 and 4

- Infiltration Basins are incorporated into the project at this time.
- The soil within the project site is permeable, however bedrock is located near the existing ground surface.
- Groundwater depth is shallow due to the proximity of bedrock.



Detention Devices, Checklist T-1, Parts 1 and 5

- At this time detention basins are incorporated into project.

Gross Solids Removal Devices (GSRDs), Checklist T-1, Parts 1 and 6

- No GSRDs will be installed within the project limits.

Traction Sand Traps, Checklist T-1, Parts 1 and 7

- Traction sand is regularly applied within the project limits, therefore there are Traction Sand Trap devices within the project limits.

Media Filters, Checklist T-1, Parts 1 and 8

- Media Filters are not incorporated in the project at this time.

Multi-Chambered Treatment Trains (MCTTs), Checklist T-1, Parts 1 and 9

- Are MCTTs are incorporated into project at this time.

Wet Basins, Checklist T-1, Parts 1 and 10

- Are Wet Basins are not incorporated into project at this time.

6. Describe Proposed Temporary Construction Site BMPs to be used on Project

Construction site BMP's have not been determined at this time. However, based on an estimated 15 acres of disturbed area, as well as the proximity of the Griff Creek watershed, significant considerations have been made in the project cost estimate for the SWPPP and

Roadway Items

- Section 1: Earthwork
 - Ø Roadway Excavation:
 - ALT A: 73,000 m³
 - ALT B: 99,000 m³
 - ALT C: 73,000 m³
 - ALT D: 99,000 m³
- Section 2: Specialty Items - Drainage

Ø Erosion Control	\$180,000
Ø Project Drainage	
Culverts, Rock Slope Protection, Inlets, etc.	\$925,500
Ø Other (List)	
Construction site BMP cost	
SWPPP	\$300,000
TOTAL STORM WATER TREATMENT & PREVENTION: \$ 1,243,500	

- No dewatering permits will be necessary with this project.
- No coordination efforts have been made at this stage.



7. Maintenance BMPs (Drain Inlet Stenciling)

Drain inlet stenciling has not been identified at this stage.

REQUIRED ATTACHMENTS

- ⇒ Vicinity Map – See Exhibit A
- ⇒ Evaluation Documentation Form (EDF)
- ⇒ Construction Site BMP Consideration Form (required at PS&E only)
- ⇒ Treatment BMP Summary Spreadsheets (required, if Treatment BMPs are incorporated into project)
- ⇒ Quantities for Construction Site BMPs (required at PS&E only)

SUPPLEMENTAL ATTACHMENTS

Note: Supplement Attachments are to be supplied during the SWDR approval process; where noted, some of these items may only be required on a project-specific basis.

- ⇒ Storm Water BMP Cost Summary
- ⇒ BMP cost information from: Preliminary Project Cost Estimate (PPCE) during PID and PA/ED project phases; Engineer's Cost Estimate for PS&E project phase
- ⇒ Plans showing BMP Deployment (i.e. Layout Sheets, Water Pollution Control Sheets, etc)
- ⇒ Pertinent Correspondence with RWQCB (if requested or recommended by District/Regional SW Coordinator or Designated Reviewer)
- ⇒ Checklist SW-1, Site Data Sources
- ⇒ Checklist SW-2, Storm Water Quality Issues Summary
- ⇒ Checklist SW-3, Measures for Avoiding or Reducing Potential Storm Water BMPs
- ⇒ Checklists DPP-1, Parts 1–5 (Design Pollution Prevention BMPs) [only those parts that were applicable]
- ⇒ Checklists T-1, Parts 1–10 (Treatment BMPs) [only those Parts that were applicable]
- ⇒ Checklists CS-1, Parts 1–6 (Construction Site BMPs) [only those Parts that were applicable]
- ⇒ Calculations and cross sections related to BMPs (if requested by District/Regional Storm Water Coordinator)
- ⇒ 07-340 or 07-345 – including the schedule of values (if requested or recommended by District/Regional SW Coordinator)
- ⇒ Conceptual Drainage Map or Drainage Plans, if available (if requested by Storm Water Coordinator for review)



APPENDIX E

Evaluation Documentation Form

See Figure 4-1, Project Evaluation Process for Consideration of Permanent Treatment BMPs

DATE: 07/10/2005

EA: 03-131-372800

NO.	CRITERIA	YES 3	NO 3	SUPPLEMENTAL INFORMATION FOR EXEMPTION
1.	Begin Project Evaluation regarding requirement for consideration of Treatment BMPs		√	Go to 2
2.	Is this an emergency or Safety project?		√	If Yes , go to 12. (Safety Projects must be funded from the 010 SHOPP Program). If No , continue to 3.
3.	Have TMDLs been established for surface waters within the project limits?	√		If Yes , contact the District/Regional NPDES coordinator to discuss the Department's participation in the TMDL (if Applicable), go to 11 or 4 (as determined by the NPDES Coordinator). _____ (Dist./Reg. SW Coordinator initials) If No , continue to 4.
4.	Is the project within an urban MS4?		√	If Yes , continue to 5. <u>(write the MS4 Area here)</u> If No , go to 12.
5.	Is the project directly or indirectly discharging to surface waters?	√		If Yes , continue to 6. If No , go to 12.
6.	Is it a new facility or major reconstruction?		√	If Yes , continue to 8. If No , go to 7.
7.	Will there be a change in line/grade or hydraulic capacity?	√		If Yes , continue to 8. If No , go to 10.
8.	Is the Disturbed Soil Area (DSA) created by the project <u>greater than or equal to 1.2 hectares</u> ?	√		If Yes , continue to 11. If No , go to 9. _____ (Total DSA quantity)
9.	Is the project part of a Common Plan of Development?		√	If Yes , continue to 11. If No , go to 10.
10.	Are there any Pollution Control Requirements within the project limits? <i>(Contact Wes Faubel, SW Coordinator)</i>	√		If Yes , continue to 11. If No , go to 12.
11.	Consider approved Treatment BMPs for the project.	√		See Sections 2.4 and either Section 5.5 or 6.5 for BMP Evaluation and Selection Process. Complete Checklist T-1 in this Appendix E.
12.	Project is not required to consider Treatment BMPs. _____ (Dist./Reg. SW Coord. Initials) _____ (Project Engineer Initials) _____ (Date)			Document for Project Files by completing this form, and attaching it to the SWDR.
13	End of checklist	√		

